

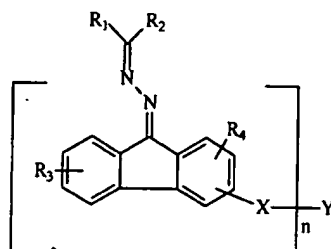
# ORGANOPHOTORECEPTOR WITH CHARGE TRANSPORT

## MATERIAL WITH FLUORENONE AZINE GROUPS

### Abstract of the Disclosure

Improved organophotoreceptor comprises an electrically conductive substrate and  
 5 a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(a) a charge transport material having the formula



~~the formula is described in the specification and where n is an integer between 2 and 6, inclusive;~~

10 ~~R<sub>1</sub> and R<sub>2</sub> are, independently, H, an alkyl group, an alkaryl group, a heterocyclic group, or an aryl group;~~

~~R<sub>3</sub> and R<sub>4</sub> are, independently, H, halogen, carboxyl, hydroxyl, thiol, cyano, nitro, aldehyde group, ketone group, an ether group, an ester group, a carbonyl group, an alkyl group, an alkaryl group, or an aryl group;~~

15 ~~X is a linking group having the formula -(CH<sub>2</sub>)<sub>m</sub>-, branched or linear, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups can be optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, a NR<sub>5</sub> group, a CHR<sub>6</sub> group, or a CR<sub>7</sub>R<sub>8</sub> group where R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, and R<sub>8</sub> are, independently, H, an alkyl group, an alkaryl group, a heterocyclic~~  
 20 ~~group, or an aryl group, and~~

~~Y is a bond, C, N, O, S, a branched or linear -(CH<sub>2</sub>)<sub>p</sub>- group where p is an integer between 0 and 10 and where one or more of the hydrogen atoms in the -(CH<sub>2</sub>)<sub>p</sub>- may be optionally removed to provide bond positions to enable n to have a higher value than 2, an aromatic group, a cycloalkyl group, a heterocyclic group, or a NR<sub>9</sub> group where R<sub>9</sub> is~~  
 25 ~~hydrogen atom, an alkyl group, or aryl group~~

~~Y comprises a bond, C, N, O, S, a branched or linear -(CH<sub>2</sub>)<sub>p</sub>- group where p is an integer between 0 and 10, an aromatic group, a cycloalkyl group, a heterocyclic group, or~~

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~~a NR<sub>1</sub> group where R<sub>1</sub> is hydrogen atom, an alkyl group, or aryl group, wherein Y has a structure selected to form n bonds with the corresponding X groups; and~~

(b) a charge generating compound.

~~Corresponding electrophotographic apparatuses and imaging methods are~~  
~~5 described.~~

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